

AVERY P. MATTHEWS

112 Smithson Drive • Chesapeake, VA 23322 • (847) 555-4410 • matthews@u.northwestern.edu

EDUCATION

- Northwestern University**, Evanston, IL August 2021
Ph.D., Materials Science and Engineering, GPA: 3.56/4.00
- Pennsylvania State University**, State College, PA May 2015
Bachelor of Science, Materials Science and Engineering, Physics Minor
Honors: Cum Laude, Schreyer Honors College, Keramos Honorary Fraternity

RESEARCH & TEACHING EXPERIENCE

- Northwestern University**, Evanston, IL September 2015-Present
Graduate Research Assistant, Department of Materials Science and Engineering
- Collaborated in an interdisciplinary center spanning 8 research groups at 3 universities across 4 disciplines to publish advances in transparent electronic semiconductors
 - Coordinated grant review presentation development and served as a liaison with lead investigators
 - Developed novel technique to characterize point defects in amorphous thin films using high-temperature, *in situ* electrical property measurement
- Science and Engineering Research and Teaching Synthesis**, Evanston, IL March 2016-June 2020
Workshop Organizer, Spring 2020
- Developed immersive, hands-on experiments to demonstrate process and importance of university-level research
 - Supervised 18 students in group activities and taught basic research methods and techniques
- Student Coordinator, Spring 2018*
- Rapidly ascertained the essentials of workshop organizers' research areas to devise custom teaching methods and demos
 - Utilized online forms enhancing the scheduling of 85 students into 15 workshop sessions over 3 weeks

LEADERSHIP EXPERIENCE

- Ready, Set, Go: A Course in Scientific Communication**, Evanston, IL January 2020-Present
Co-Founder, Program Administrator
- Authored grant for \$10,000 to pilot a yearlong workshop for graduate student researchers
 - Coordinated professionals in theater, journalism, and communication to design intensive 10-week workshop
 - Designed and maintained a course website to promote the achievements of workshop fellows
 - Analyzed program feedback using web-based forms and presented to a board of graduate school deans
- Engelhart Hall**, Evanston, IL August 2016-June 2020
Resident Assistant, 2016-2018; Senior Resident Assistant, 2018-2020
- Facilitated weekly meetings for a staff of 4 graduate students to plan events and enhance community development
 - Reviewed, selected, and trained candidates for a community assistant position
 - Planned 30 events over 4 years for a diverse community of 300 residents on budget of \$8,000 per year
 - Implemented online duty log to track staff efforts, improving consistency of response and scheduling decisions
 - Enhanced Engelhart's social network presence, contributed to improving event awareness and attendance by 50%

PREVIOUS EXPERIENCE

- Apple Retail**, Norfolk, VA June 2013-August 2015
Apple Specialist
- Engaged customers in friendly conversation to assess needs and provide the optimal solution for their budget
 - Earned Apple Product Professional Gold-Level Certification for product knowledge

HONORS & AWARDS

- MGLC Art Fair Winner, Photography 2018, 2020
Walter P. Murphy Fellowship (awarded to outstanding first-year Ph.D. students) 2015

MATERIALS SYNTHESIS & CHARACTERIZATION TECHNIQUES

SEM, XRD, ToF-SIMS, XPS, Profilometry, Ellipsometry, Hall Probe, UV-VIS Spectrophotometry, Solid state synthesis, PLD

COMPUTER SKILLS

Proficient

Apple Keynote, Adobe Illustrator, Adobe InDesign, Adobe Photoshop, Adobe Muse, MS Excel, MS Word, MS PowerPoint

Intermediate

Adobe Premiere, Adobe Dreamweaver, SketchUp, LabVIEW, Wolfram Mathematica 8